Higher Maths SQA 2019 Paper 2 Question 8



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A function, f, is given by $f(x) = \sqrt[3]{x} + 8$.

The domain of f is $1 \le x \le 1000$, $x \in \mathbb{R}$.

The inverse function, f^{-1} , exists.

(a) Find
$$f^{-1}(x)$$
.

(b) State the domain of f^{-1} .

Answers:

(a)
$$f^{-1}(x) = (x-8)^3$$

(b)
$$9 \le x \le 18, x \in \mathbb{R}$$